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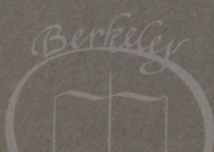


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DEPARTMENT OF THE INTERIOR.

CATALOGUE

OF THE

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OF THE

U. S. GEOLOGICAL AND GEOGRAPHICAL SURVEY

OF

THE TERRITORIES.

F. V. HAYDEN, GEOLOGIST-IN-CHARGE.

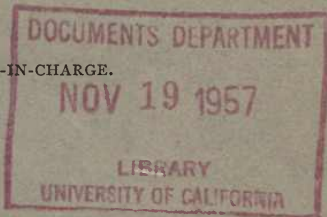
SECOND EDITION.

(REVISED TO DECEMBER 31, 1876.)

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DEPARTMENT OF THE INTERIOR

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OFFICE U. S. GEOLOGICAL AND GEOGRAPHICAL  
SURVEY OF THE TERRITORIES,  
*Washington, December 31, 1876.*

The present catalogue is intended to give an enumeration of all the publications of the United States Geological and Geographical Survey of the Territories issued to the present time. In order further to convey an adequate idea of the work done, the captions of the several parts of each volume are also given under the general titles of the volumes. The titles are interrupted by vertical bars ( | ), to exhibit the adjustment of the typography on the respective title-pages.

The Geologist-in-charge is desirous of securing, by exchange, the publications of foreign countries on geology, palæontology, and natural history generally, to aid in the formation of a library of reference, for the use of the Survey of which he has charge.

He avails himself of this opportunity again to ask those persons or societies that may receive the publications of the Survey to reciprocate, by sending to him such of their own publications as they may feel disposed, and he believes that he can assure them an ample return, either in books or specimens, or both.

The reports of surveys, with maps, charts, and sections, transactions of societies, or the publications of individuals engaged in scientific studies, are much desired as works of reference.

Individuals or societies who may look favorably upon the above proposition can send all packages, through the Smithsonian Institution, to the address of Dr. F. V. HAYDEN, U. S. Geologist, Washington, D. C.

A careful record will be kept of the addresses of all the correspondents of the Survey. Societies, libraries, or persons engaged in active scientific investigation desiring to receive the publications of the Survey will confer a favor by communicating their wishes.

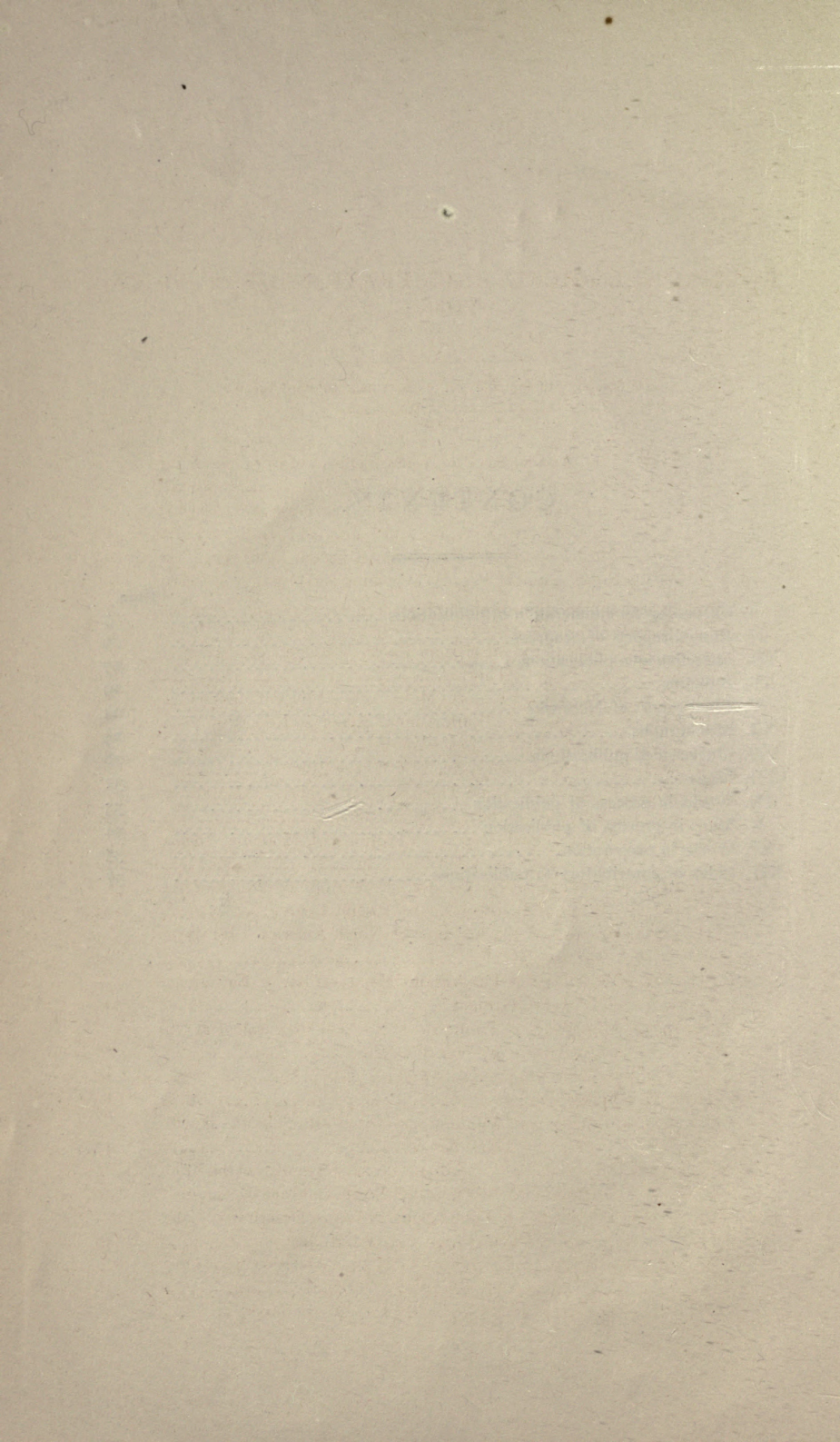
A few of the publications enumerated in this catalogue are either rare or entirely out of print. Some will doubtless be reprinted. If societies or correspondents who desire to complete their series of the publications of the Survey will indicate to the Geologist-in-charge the missing volumes, they will be sent without delay.



## CONTENTS.

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	Page.
I. Chronological enumeration of publications .....	7
II. Annual reports of progress.....	9
III. Miscellaneous publications .....	17
IV. Bulletins.....	19
V. Final report of Nebraska .....	23
VI. Monographs .....	24
VII. Unclassified publications.....	28
VIII. Maps .....	31
IX. Works in process of publication .....	33
X. Maps in process of publication .....	34
XI. Works in preparation.....	35
XII. Index of contributors to publications.....	37



# I.—CHRONOLOGICAL ENUMERATION OF PUBLICATIONS.

[For complete titles, refer to the pages as numbered below.]

	Page.
I. 1867.—First Annual Report (Nebraska) [out of print, see X]..	9
II. 1868.—Second Annual Report (Wyoming) [out of print, see X]	9
III. 1869.—Third Annual Report (Colorado and New Mexico) [out of print, see X].....	9
IV. 1871.—Final Report on Nebraska and Adjacent Territory.....	23
V. 1871.—Fourth Annual Report (Wyoming and Contiguous Territory).....	10
VI. 1872.—Lists of Elevations and Distances in the United States west of the Mississippi River. Collated and arranged by Prof. C. Thomas .....	28
VII. 1872.—Fifth Annual Report (Montana and adjacent territory)..	11
VIII. 1872.—Supplement to Fifth Annual Report.—Report on fossil flora. By Leo Lesquereux.....	12
IX. 1872.—Profiles, Sketches, &c. By Henry Elliott.....	28
X. 1873.—First, Second, and Third Annual Reports. (Reprint of Reports for 1867, 1868, and 1869).....	10
XI. 1873.—Sixth Annual Report. (Portions of Montana, Idaho, Wyoming, and Utah).....	12
XII. 1873.—Contributions to the Extinct Vertebrate Fauna of the Western Territories. By Joseph Leidy.....	24
XIII. 1873.—Synopsis of the Acrididæ of North America. By Cyrus Thomas, Ph. D.....	25
XIV. 1873.—Miscellaneous Publications No. 1.—Lists of Elevations. By Henry Gannett .....	17
XV. 1873.—Miscellaneous Publications No. 2.—Meteorological Observations. By Henry Gannett.....	17
XVI. 1874.—Bulletin No. 1.....	19
XVII. 1874.—Bulletin No. 2.....	19
XVIII. 1874.—Miscellaneous Publications No. 3.—Birds of the Northwest. By Elliott Coues .....	17
XIX. 1874.—Miscellaneous Publications No. 4.—Synopsis of the Flora of Colorado. By Thomas C. Porter and John M. Coulter.	18
XX. 1874.—Miscellaneous Publications No. 5.—Descriptive Catalogue of Photographs. By W. H. Jackson.....	18
XXI. 1874.—Miscellaneous Publications No. 6.—Meteorological Observations. By George B. Chittenden .....	18
XXII. 1874.—The Cretaceous Flora. By Leo Lesquereux .....	26

	Page.
XXIII. 1874.—Seventh Annual Report (Colorado) .....	14
XXIV. 1874.—Catalogue of Publications .....	29
XXV. 1875.—Cretaceous Vertebrata. By E. D. Cope.....	24
XXVI. 1875.—Miscellaneous Publications No. 1. Third edition.....	17
XXVII. 1875.—Miscellaneous Publications No. 5. Second edition. (Illustrated) .....	18
XXVIII. 1875.—Bulletin No. 1, second series .....	19
XXIX. 1875.—Bulletin No. 2, second series .....	20
XXX. 1875.—Bulletin No. 3, second series .....	20
XXXI. 1875.—Bulletin No. 4, second series .....	20
XXXII. 1875.—Bulletin No. 5, second series .....	20
XXXIII. 1876.—Bulletin No. 6, second series .....	21
XXXIV. 1876.—Bulletin, Volume II, No. 1. ....	21
XXXV. 1876.—Bulletin, Volume II, No. 2. ....	21
XXXVI. 1876.—Bulletin, Volume II, No. 3. ....	21
XXXVII. 1876.—Bulletin, Volume II, No. 4. ....	22
XXXVIII. 1876.—Eighth Annual Report (Colorado and adjacent terri- tory) .....	15
XXXIX. 1876.—Monograph of the Geometrid Moths. By A. S. Packard.	27
XL. 1876.—Invertebrate Palæontology. By F. B. Meek .....	26
XLI. 1877.—Catalogue of Publications. Second edition.....	29

## II.—ANNUAL REPORTS OF PROGRESS.

### I.—EXPLORATIONS OF 1867.

(*First Annual Report.*)

[First Annual Report of the United States Geological Survey of the Territories, embracing Nebraska. By F. V. Hayden, U. S. Geologist. Conducted under the authority of the Commissioner of the General Land-Office, 1867.] <Report of the Commissioner of General Land-Office, for the year 1867. Washington, 1867. pp. 128-181, where it appears in the form of a letter dated "Nebraska City, July 1, 1867", without any other heading.

### II.—EXPLORATIONS OF 1868.

(*Second Annual Report.*)

[Second Annual Report of the United States Geological Survey of the Territories, embracing Wyoming. By F. V. Hayden, U. S. Geologist. Conducted under the authority of the Commissioner of the General Land-Office, 1868.] <Report of the Commissioner of General Land-Office, for the year 1868. Washington, 1868. pp. 220-255, where it appears in the form of letters dated "Fort Steele, Union Pacific Railroad, September 5, 1868", and "Fort Sanders, Wyoming Territory, September 25, 1868", under the heading "Report of F. V. Hayden on the Geography of the Missouri Valley".

### III.—EXPLORATIONS OF 1869.

(*Third Annual Report.*)

Preliminary Field Report | of the | United States Geological Survey | of | Colorado and New Mexico, | conducted | under the authority of Hon. J. D. Cox, Secretary of the Interior. | By F. V. Hayden, | United States Geologist. | — | Washington: | Government Printing Office. | 1869. [8vo, 155 pp.]

#### CONTENTS.

Report of F. V. Hayden.—Geological Report. pp. 7-99.

Report of Persifer Frazer, jr.—Mines and Minerals of Colorado. pp. 101-130.

Report of Cyrus Thomas.—Agriculture of Colorado. pp. 131-155.

## REPRINT OF I. II. AND III.

First, Second, and Third Annual Reports | of the | United States Geological Survey | of the Territories | for | the years 1867, 1868, and 1869, | under the | Department of the Interior. | — | Washington: | Government Printing Office. | 1873. [8vo, 261 pp., 1 l.]

## CONTENTS.

- [1] First Annual Report | of the | United States Geological Survey | of the Territories, | embracing Nebraska. | By F. V. Hayden, U. S. Geologist. | — | Conducted under the authority of the Commissioner of | the General Land-Office. | — | 1867. pp. 5-64.

NOTE.—Reprinted from the "Report of the Commissioner of General Land-Office for the year 1867". Washington, 1867. pp. 128-181.

- [2] Second Annual Report | of the | United States Geological Survey | of the Territories, | embracing Wyoming. | By F. V. Hayden, U. S. Geologist. | — | Conducted under the authority of the Commissioner of | the General Land-Office. | 1868. pp. 65-102.

NOTE.—Reprinted from the "Report of the Commissioner of General Land-Office for the year 1868". Washington: 1868. pp. 220-255.

- 3] Third Annual Report | of the | United States Geological Survey | of the Territories, | embracing | Colorado and New Mexico. | Conducted under the authority of the Secretary of the Interior. | By | F. V. Hayden, U. S. Geologist. pp. 103-251.

NOTE.—Reprinted from the separate Report. (See III, p. 9).

## IV.—EXPLORATIONS OF 1870.

(*Fourth Annual Report.*)

Preliminary Report | of the | United States Geological Survey | of | Wyoming, and | Portions of Contiguous Territories, | (being a second annual report of progress,) | conducted | under the authority of the Secretary of the Interior, | by | F. V. Hayden, | United States Geologist. | — | Washington: | Government Printing Office. | 1872. [8vo, 511 pp.]

## CONTENTS.

- Part I. Report of F. V. Hayden.—Geological Survey of the Territories. pp. 9-81.  
Part II. [Report of F. V. Hayden.]—Geology of the Missouri Valley. pp. 83-188.

- Part III. Report of Professor Cyrus Thomas:

Part I. Agriculture. pp. 192-264.

Part II. A List and Descriptions of New Species of Orthoptera [with remarks on the *Caloptenus spretus*, or Hateful Grasshopper]. pp. 265-284.

- Part IV. Special Reports:

I. Preliminary Paleontological Report, consisting of lists of fossils, with descriptions of some new types, etc. By F. B. Meek. pp. 287-318.

II. On the Tertiary Coals of the West. By Jas. T. Hodge, Geologist. pp. 318-329.



Part IV. Special Reports—Continued.

- III. The Ancient Lakes of Western America: their deposits and drainage. By J. S. Newberry, LL. D. pp. 329-339.
- IV. Report on the Vertebrate Fossils of the Tertiary Formations of the West. By Prof. Joseph Leidy. pp. 340-370.
- V. On the Fossil Plants of the Cretaceous and Tertiary Formations of Kansas and Nebraska. By Leo Lesquereux. pp. 370-385.
- VI. On the Fossil Reptiles and Fishes of the Cretaceous Rocks of Kansas. By Prof. E. D. Cope. pp. 385-424.
- VII. On the Fishes of the Tertiary Shales of Green River, Wyoming Territory. By Prof. E. D. Cope. pp. 425-431.
- VIII. Recent Reptiles and Fishes. Report on the Reptiles and Fishes obtained by the Naturalists of the Expedition. By E. D. Cope, A. M. pp. 432-442.
- IX. Material Resources. Report on the Industrial Resources of Western Kansas and Eastern Colorado. By R. S. Elliott. pp. 442-458.

Part V. Catalogues:

- I. Mammals and Birds. A List of Mammals and Birds collected in Wyoming Territory, by Mr. H. D. Smith and Mr. James Stevenson, during the expedition of 1870. By James Stevenson. pp. 461-466.
- II. Report on Mollusca. By S. R. Roberts. pp. 467-469.
- III. Coleoptera. A List of Coleoptera collected by C. Thomas, in Eastern Colorado and Northeastern New Mexico, during the survey of 1869. By Dr. G. H. Horn. pp. 469-470.
- IV. Hemiptera. A List of Hemiptera collected in Eastern Colorado and Northeastern New Mexico, by C. Thomas, during the expedition of 1869. By P. R. Uhler, esq. pp. 471-472.
- V. Catalogue of Plants. By Thomas C. Porter. pp. 472-484.
- VI. Catalogue of Plants. A List of Plants collected by C. Thomas, in Eastern Colorado and Northeastern New Mexico, during the survey of 1869. By Dr. C. C. Parry. pp. 484-487.
- Appendix. Meteorology, &c. By Mr. J. W. Beaman. pp. 488-501.

V.—EXPLORATIONS OF 1871.

(*Fifth Annual Report.*)

Preliminary Report | of the | United States Geological Survey | of |  
Montana | and | Portions of Adjacent Territories; | being a fifth  
annual report of progress. | By F. V. Hayden, | United States Ge-  
ologist. | — | Conducted under authority of the Secretary of  
the Interior. | — | Washington: | Government Printing Office. |  
1872. [8vo, i-vi, 3-538 pp. (with 64 figures), 2 pl., 5 maps folded.]

CONTENTS.

- Part I. Report of F. V. Hayden. pp. 11-204.
- Part II. Agricultural Resources of the Territories. By Prof. Cyrus Thomas. pp. 205-279.

## Part III. Palæontology:

Fossil Flora. By Leo Lesquereux. pp. 283-318.

On the Geology and Paleontology of the Cretaceous Strata of Kansas. By E. D. Cope, A. M. pp. 318-349.

On the Vertebrate Fossils of the Wahsatch Group. By E. D. Cope, A. M. pp. 350-353.

On the Fossil Vertebrates of the early Tertiary Formation of Wyoming. By Prof. Joseph Leidy. pp. 353-372.

Preliminary List of the Fossils collected by Dr. Hayden's Exploring Expedition in Utah and Wyoming Territories, with descriptions of a few new species. By F. B. Meek. pp. 373-377.

## Part IV. Zoology and Botany:

I. Notice of some Worms collected during Dr. Hayden's Expedition to the Yellowstone River in the summer of 1871. By Prof. Joseph Leidy. pp. 381-382.

II. Coleoptera. By George H. Horn, M. D. pp. 382-392.

III. Notices of the Hemiptera of the Western Territories of the United States, chiefly from the Surveys of Dr. F. V. Hayden. By P. R. Uhler. pp. 392-423.

IV. Notes on the Saltatorial Orthoptera of the Rocky Mountain Regions. By Prof. Cyrus Thomas. pp. 423-466.

V. List of Species of Butterflies collected by Campbell Carrington and William B. Logan, of the Expedition, in 1871. By W. H. Edwards. pp. 466-467.

VI. Report on the Recent Reptiles and Fishes of the Survey, collected by Campbell Carrington and C. M. Dawes. By E. D. Cope, A. M. pp. 467-476.

VII. Catalogue of Plants. By Prof. Thomas C. Porter. pp. 477-498.

Part V. Meteorology. By J. W. Beaman. pp. 499-524.

Supplement of the Fifth Annual Report | of the | United States Geological Survey | of | the Territories for 1871. | — | F. V. Hayden, | United States Geologist-in-charge. | Report on Fossil Flora. By Leo Lesquereux. | — | Conducted under authority of the Secretary of the Interior. | — | Washington: | Government Printing Office. | 1872. [8vo, 22 pp.]

NOTE.—Published as a separate pamphlet.

## VI.—EXPLORATIONS OF 1872.

(*Sixth Annual Report.*)

Sixth Annual Report | of the | United States Geological Survey | of | the Territories, | embracing | Portions of Montana, Idaho, Wyoming, and Utah; | being a report of progress of the ex- | plorations for the year 1872. | By | F. V. Hayden, | United States Geologist. | — | Conducted under the authority of the | Secretary of the Interior. | — | Washington: | Government Printing Office. | 1873. [8vo, xi, 844 pp. (with 68 figures and 3 diagrams), 12 pl., 5 maps.]

CONTENTS.

Letter to the Secretary. pp. 1-10.

Part I. Report of F. V. Hayden. pp. 12-64, with 3 maps.

Report of N. P. Langford on the Resources of Snake River Valley. pp. 86-91.

Means of Access to the Yellowstone National Park by Railroads. [By R. Hering.] pp. 92-95.

Report of A. C. Peale, M. D. pp. 99-187.

Report of Frank H. Bradley, Geologist of the Snake River Division. pp. 189-271, with 2 maps.

Physical Geography and Agricultural Resources of Minnesota, Dakota, and Nebraska. By Cyrus Thomas, Ph. D. pp. 273-313.

Part II. Special Reports on Geology and Paleontology. pp. 315-658.

Lignitic Formation and Fossil Flora. By Leo Lesquereux. pp. 317-427.

Paleontological Report, [etc.] By F. B. Meek. pp. 429-518.

Report of a Geological Reconnaissance along the Union Pacific Railroad. By H. M. Bannister, M. D. pp. 519-541.

On the Extinct Vertebrata of the Eocene of Wyoming, observed by the Expedition of 1872, with Notes on the Geology. By Edward D. Cope, A. M. pp. 543-649, pl. 1-6.

On Remains of Primitive Art in the Bridger Basin of Southern Wyoming. By Prof. Joseph Leidy. pp. 651-654, pl. 7-12.

Ancient Mounds in Dakota. By C. Thomas, Ph. D. pp. 655-658.

Part III. Special Reports on Zoölogy and Botany. pp. 659-792.

Report on the Mammals and Birds of the Expedition. By C. H. Merriam. pp. 661-715.

Coleoptera. By George H. Horn, M. D. p. 717.

Notes on Orthoptera. By Cyrus Thomas, Ph. D. pp. 719-725.

Odonata from the Yellowstone. By Dr. H. Hagen. pp. 727-729.

Descriptions of New Species of Mallophaga, collected by C. H. Merriam while in the Government Geological Survey of the Rocky Mountains, [etc.] By A. S. Packard, jr., M. D. pp. 731-734.

Description of New Parasitic Worms found in the brain and other parts of Birds. By A. S. Packard, jr., M. D. pp. 735-737.

Description of New Insects. By A. S. Packard, jr., M. D. pp. 739-741.

Insects inhabiting Great Salt Lake and other saline or alkaline lakes in the West. By A. S. Packard, jr., M. D. pp. 743-746.

Botany. By J. M. Coulter. pp. 747-792.

Part IV.

Report on Astronomy and Hypsometry. By Henry Gannett, M. E. pp. 793-807.

Notes on the Climate of Montana. By Granville Stuart. pp. 809-817.

## VII.—EXPLORATIONS OF 1873.

*(Seventh Annual Report.)*

Annual Report | of | the United States | Geological and Geographical Survey | of | the Territories, | embracing Colorado, | being a report of progress of | the exploration for the year 1873, | by | F. V. Hayden, | United States Geologist. | — | Conducted under the authority of the Secretary | of the Interior. | — | Washington: | Government Printing Office. | 1874. [8vo, i-xii, 1-718 pp. (with 110 illustrations, including wood-cuts, plates, and maps).]

## CONTENTS.

Letter to the Secretary. pp. 1-14.

Part I. Geology, Mineralogy, and Mining Industry. p. 15.

Report of F. V. Hayden, U. S. Geologist. pp. 17-82.

Report of Arch. R. Marvine, Assistant Geologist directing the Middle Park Division. pp. 83-192.

Report of A. C. Peale, M. D., Geologist of the South Park Division. pp. 193-273.

Report of F. M. Endlich, S. N. D., [Geologist of the San Luis Division.] pp. 275-361.

Part II. Special Reports on Palæontology. p. 363.

The Lignitic Formation and its Fossil Flora. By Leo Lesquereux. pp. 365-425.

Report on the Vertebrate Paleontology of Colorado. By Edward D. Cope, A. M. pp. 427-533.

[With "Appendix" to Chapter II, pp. 455-456, viz: "Descriptions of New Mollusks from Cretaceous Beds of Colorado, by T. A. Conrad."]

Part III. Zoölogy. p. 535.

1. Report of Lieut. W. L. Carpenter on the Collections made by him in 1873, while connected with the United States Geological Survey. pp. 537-538.

2. Destruction of Pine-timber in the Rocky Mountains, [in connection with insects.] By Lieut. W. L. Carpenter, U. S. A. pp. 538-539.

3. Report on the Alpine Insect Fauna of Colorado. By Lieut. W. L. Carpenter, U. S. A. pp. 539-542.

4. List of Species of Butterflies collected by Lieut. W. L. Carpenter, U. S. A., for the United States Geological Survey of Colorado, 1873. By W. H. Edwards. p. 542.

5. On the Geographical Distribution of the Moths of Colorado. By A. S. Packard, jr., M. D. pp. 543-560.

6. Report on the Diptera collected by Lieut. W. L. Carpenter in Colorado during the Summer of 1873. By C. R. Osten Sacken. pp. 561-566.

7. Notice on the Galls collected by Lieut. W. L. Carpenter. By C. R. Osten Sacken. p. 567.

8. List of Species of Coleoptera, collected by Lieut. W. L. Carpenter, United States Army, for the United States Geological Survey of Colorado, 1873. By Henry Ulke. pp. 567-571.

9. Report on the Pseudo-Neuroptera and Neuroptera collected by Lieut. W. L. Carpenter in 1873 in Colorado. By Dr. H. A. Hagen. pp. 571-606.

Part III. Zoölogy—Continued.

10. Report on the Myriopods collected by Lieut. W. L. Carpenter, in 1873, in Colorado. By A. S. Packard, jr., M. D. p. 607.
11. Report on the Amphipod Crustaceans. By S. I. Smith. pp. 608-611.
12. Description of a Lernæan Crustacean (*Achtheres Carpenteri*) obtained by Lieut. W. L. Carpenter, in 1873, in Colorado. By A. S. Packard, jr., M. D. p. 612.
13. Synopsis of the Fresh-Water Phyllopod Crustacea of North America. By A. S. Packard, jr., M. D. pp. 613-622.
14. List of Leeches collected by Hayden's Expedition, 1873. By A. E. Verrill. p. 623.
15. List of Terrestrial Mollusks collected by Lieut. W. L. Carpenter, U. S. A., for the United States Geological Survey of Colorado, 1873. By William G. Binney. p. 623.

Part IV. Geography and Topography. p. 625.

Sketch of the Methods of Survey in the Geographical Department. By James T. Gardner, Geographer. pp. 627-628.

The Elevations of Certain Datum-Points on the Great Lakes and Rivers and in the Rocky Mountains. By James T. Gardner, Geographer. pp. 629-633-659.

Topographical Report of Middle Park Division, 1873. By S. B. Ladd, M. E. pp. 661-669.

Geographical Report of Henry Gannett, M. E. pp. 670-681.

Appendix:

Gold Hill Mining-Region: its position and general geology. By Arch. R. Marvine. pp. 685-687.

The Telluride Ores of the Red Cloud and Cold Spring Mines, Gold Hill. By B. Silliman. pp. 688-691.

General Index. pp. 693-703.

Index of Systematic Names. pp. 705-718.

VIII.—EXPLORATIONS OF 1874.

(*Eighth Annual Report.*)

Annual Report | of | the United States | Geological and Geographical Survey | of | the Territories, | embracing | Colorado and parts of Adjacent Territories ; | being a | report of progress of the exploration for the year 1874. | By | F. V. Hayden, | United States Geologist. | — | Conducted under the authority of the Secretary | of the Interior. | — | Washington: | Government Printing Office. | 1876. [8vo, i-ix, 1-515 pp. (with 88 illustrations,—woodcuts, plates, and maps).]

CONTENTS.

Letter to the Secretary. pp. 1-17.

*Geology, Mineralogy, and Mining Industry.*

Report of F. V. Hayden, U. S. Geologist. pp. 19-71.

Report of W. H. Holmes, on the Northwestern portion of the Elk Mountains. pp. 59-71.

- Report of A. C. Peale, M. D., Geologist of Middle Division. pp. 73-180.  
 Report of F. M. Endlich, S. N. D., Geologist of San Juan Division. pp. 181-240.  
 Report of Samuel Aughey, Ph. D., on the Superficial deposits of Nebraska.  
 pp. 241-269.

*Paleontology.*

- Report of Leo Lesquereux. pp. 271-365.  
 On the Tertiary flora of the North American Lignitic considered as evidence of the age of the formation. pp. 271-315.  
 A Review of the Cretaceous flora of North America. pp. 316-365.

*Archæology.*

- Report of W. H. Jackson. Ancient Ruins in Southwestern Colorado. pp. 367-381.

*Zoölogy.*

- Report of Ernest Ingersoll, on the Natural History of the U. S. Geological and Geographical Survey of the Territories, 1874. pp. 383-410.

*Topography and Geography.*

- Report of Henry Gannett, M. E., Topographer directing Middle Division. pp. 411-433.  
 Report of S. B. Ladd, M. E. Topographical Report of Northern Division, 1874. pp. 435-442.  
 Report of A. D. Wilson. Means of communication between Denver and the San Juan Mines. pp. 443-449.  
 Report of Franklin Rhoda. Report on the Topography of the San Juan country. pp. 451-496.  
 General Index. pp. 497-508.  
 Systematic Index. pp. 509-515.

### III.—MISCELLANEOUS PUBLICATIONS.

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Department of the Interior. | U. S. Geological and Geographical Survey of the Territories. | F. V. Hayden, U. S. Geologist-in-charge. | — |

#### I.

Miscellaneous Publications—No. 1. | — | Lists of Elevations | in | that portion of the United States | west of | the Mississippi River. | — | Collated and arranged | by | Henry Gannett, Assistant. | — | Washington: | Government Printing Office. | 1873. [8vo, 47 pp.]

NOTE.—This is virtually a *second edition*, much modified, of an unclassified publication having the following title and collation: | Lists | of | Elevations and Distances | in that portion of the United States | west of the Mississippi River. | — | Collated and arranged by | Prof. C. Thomas, Asst. U. S. Geol. Surv., | under | Dr. F. V. Hayden. | — | Washington: | Government Printing Office. | 1872. [12mo, 31 pp.] That being then the original edition, Mr. Gannett's revision of the subject in 1873 is considered a *second edition* (though not so named in the title), and his revision of 1875 is the *third edition*, and so entitled. See title next below, and see beyond, under head of "Unclassified Publications," p. 28.

#### II.

Miscellaneous Publications—No. 1. | — | Lists of Elevations | principally in | that portion of the United States | west of | the Mississippi River. | Third edition. | — | Collated and arranged | by | Henry Gannett, M. E. | — | Washington: | Government Printing Office. | 1875. [8vo, 72, i-ii pp.]

NOTE.—See note to No. 1.

#### III.

Miscellaneous Publications—No. 2. | — | Meteorological Observations, | during | the year 1872, | in | Utah, Idaho, and Montana | Prepared for publication by | Henry Gannett, Assistant. | — | Washington: | Government Printing Office. | 1873. [8vo, 120 pp.]

#### IV.

Miscellaneous Publications—No. 3. | — | Birds of the Northwest: | A Hand Book | of | the Ornithology | of the | Region drained by the Missouri River | and its Tributaries. | — | By Elliott Coues, | Captain and Assistant Surgeon U. S. Army. | — | Washington: | Government Printing Office. | 1874. [8vo, i-xi, 1-791 pp.]

## V.

Miscellaneous Publications—No. 4. | — | Synopsis | of the | Flora  
of Colorado, | by | Thomas C. Porter | and | John M. Coulter.  
| — | Washington: | Government Printing Office. | March 20,  
1874. [8vo, 5 p. l., 180 pp.]

NOTE.—The enumeration of *Musci* and *Hepaticæ* is by Leo Lésquereux; that  
of the *Lichens*, by Henry Willey; and that of the *Fungi*, by Charles H. Peck.

## VI.

Miscellaneous Publications—No. 5. | — | Descriptive Catalogue  
| of | the Photographs | of the | United States Geological Sur-  
vey | of | the Territories, | for | the years 1869 to 1873, inclusive. |  
W. H. Jackson, | photographer. | — | Washington: | Government  
Printing Office. | 1874. [8vo, 83 pp.]

## VII.

Miscellaneous Publications—No. 5. | — | Descriptive Catalogue  
| of | the Photographs | of the | United States Geological Sur-  
vey | of | the Territories, | for | the years 1869 to 1875, inclusive.  
| Second edition. | — | W. H. Jackson, Photographer. | — |  
Washington: | Government Printing Office. | 1875. [8vo, 81 pp.  
(14 illustrations).]

## VIII.

Miscellaneous Publications—No. 6. | — | Meteorological Observa-  
tions | made during | the year 1873 and the early part of the year  
1874 | in | Colorado and Montana Territories. | Prepared for pub-  
lication by | George B. Chittenden. | — | Washington: | Govern-  
ment Printing Office. | 1874. [8vo, 57 pp.]



## IV.—BULLETINS.

### I.

Department of the Interior. | — | Bulletin | of | the United States  
| Geological and Geographical Survey | of | the Territories. | F.  
V. Hayden, | U. S. Geologist-in-charge. | 1874 and 1875. | Vol. I.  
| — | Washington: | Government Printing Office. | 1875. [8vo,  
xiii pp. + 28 pp. + 77 pp. + 499 pp. + 19 ll. unpagcd, 26 pll., 3  
maps, 1 wood-cut.]

NOTE.—Consisting of the separately-paged Bulletins Nos. 1 and 2, “first series”, and of the continuously-paged Bulletins Nos. 1 to 6 inclusive, “second series”, furnished with xiii pp. extra (title, table of contents, &c.). The distinction of “series” is not maintained after No. 6, which completes Vol. I.

#### CONTENTS.

##### *1st Series, 1874.*

No. 1.—[8vo, 28 pp.]

List of Members and Colaborators of the Survey for 1873. pp. 3-4.

List of the Publications of the Geological Survey of the Territories. pp. 5-7.

Report on the Stratigraphy and Pliocene Vertebrate Paleontology of Northern Colorado. By Edward D. Cope, A. M. pp. 7-28.

No. 2.—[8vo, 77 pp., 1 l.]

Review of the Vertebrata of the Cretaceous Period found west of the Mississippi River. By Edward D. Cope, A. M. pp. 5-48.

Supplementary Notices of Fishes from the Freshwater Tertiaries of the Rocky Mountains. [By Edward D. Cope, A. M.] pp. 49-51.

On the General Characters and the Relation of the Flora of the Dakota Group. By Leo Lesquereux. pp. 52-62.

Descriptions of some New Orthoptera, and Notes on some species but little known. By Cyrus Thomas. pp. 63-71.

Notes on the Rocky Mountain Ranges in Colorado Territory. [By James T. Gardner.] pp. 72-77.

##### *Second Series, 1875-76.*

No. 1.—[8vo, 47 pp.]

I. On the Fishes of the Tertiary Shales of the South Park [Colorado]. By E. D. Cope. pp. 3-5.

II. On the Cranial and Dental Characters of *Mephitis*, with Description of *Mephitis frontata*, n. sp. foss. By Dr. Elliott Coues, U. S. A. pp. 7-15 (with one wood-cut).

III. Ancient Ruins in Southwestern Colorado. By W. H. Jackson. pp. 17-38, pll. I-III.

IV. Note on some Fossils from near the Eastern Base of the Rocky Mountains, west of Greeley and Evans, Colorado, and others from about two hundred miles farther eastward, with descriptions of a few new species. By F. B. Meek, Paleontologist. pp. 39-47.

No. 2.—[8vo, pp. 49-142]

I. Monograph of the Genus *Leucosticte*, Swainson; or, Gray-crowned Purple Finches. By Robert Ridgway. pp. 51-82.

II. The Cranial and Dental Characters of Geomyidæ. By Dr. Elliott Coues. pp. 83-90.

III. Synopsis of Insectivorous Mammals. By Theodore Gill. pp. 91-120.

IV. Report on the Natural History of United States Geological and Geographical Survey of the Territories, 1874. By Ernest Ingersoll. pp. 121-142.

No. 3.—[8vo, pp. 143-211 + 2 ll., 2 maps and 4 other illustrations.]

I. Means of Communication between Denver and the San Juan Mines. By A. D. Wilson, Topographer directing. pp. 145-149, with map.

II. Report on the Mines and Geology of the San Juan Country. By F. M. Endlich, S. N. D. pp. 151-164, with map.

III. Report on the Topography of the San Juan Country. By Franklin Rhoda, Assistant Topographer. pp. 165-209, with 2 folded plates.

IV. Note on some Peculiar Forms of Erosion in Eastern Colorado. By F. V. Hayden. pp. 210-211, with 2 heliotype illustrations, (pll. VII-VIII.)

No. 4.—[8vo, pp. 215-231 + 10 ll., 10 plates.]

I. Notes on the Surface Features of the Colorado or Front Range of the Rocky Mountains. By F. V. Hayden. pp. 215-220, with 2 plates, (pll. IX, X.)

II. The Tertiary Physopoda of Colorado. By Samuel H. Scudder. pp. 221-223.

III. Outlines of a Natural Arrangement of the Falconidæ. By Robert Ridgway. pp. 225-231, with 8 plates.

No. 5.—[8vo, pp. 233-414 + 2. ll., 3 pll.]

I. A Review of the Fossil Flora of North America. By Leo Lesquereux. pp. 233-248.

II. Notes on the Geology of some Localities near Cañon City, Frémont Co., Col. By S. G. Williams. pp. 249-251.

III. Some Account, Critical, Descriptive, and Historical, of *Zapus hudsonius*. By Dr. Elliott Coues, U. S. A. pp. 253-262.

IV. On the Breeding Habits, Nest, and Eggs of the White-tailed Ptarmigan (*Lagopus leucurus*). By Dr. Elliott Coues, U. S. A. pp. 263-266.

V. List of Hemiptera of the Region west of the Mississippi River, including those collected during the Hayden Explorations of 1873. By P. R. Uhler. pp. 267-361, with 3 plates, (pll. 19-21.)

VI. On Some New Species of Fossil Plants from the Lignitic Formations. By Leo Lesquereux. pp. 363-389.

VII. New Species of Fossil Plants from the Cretaceous Formation of the Dakota Group. By Leo Lesquereux. pp. 391-400.

VIII. Notes on the Lignitic Group of Eastern Colorado and Portions of Wyoming. By F. V. Hayden. pp. 401-411.

IX. On the Supposed Ancient Outlet of Great Salt Lake. By A. S. Packard, jr pp. 413-414.

No. 6.—[8vo, pp. 415-499 + 5 ll., 5 pll.] Feb. 8, 1876.

- I. An Account of the Various Publications relating to the Travels of Lewis and Clarke, with a commentary on the zoölogical results of their expedition. By Dr. Elliott Coues, U. S. A. pp. 417-444.
  - II. Notice of a very large Goniatite from Eastern Kansas. By F. B. Meek. pp. 445, 446.
  - III. Fossil Orthoptera from the Rocky Mountain Tertiaries. By Samuel H. Scudder. pp. 447-449.
  - IV. Studies of the American Falconidæ. By Robert Ridgway. pp. 451-473, with 5 plates and 5 l. explanatory.
  - V. Index. pp. 475-499.
- Index to all preceding Bulletins, with title, table of contents, &c. p. i-xiii.

## II.

Department of the Interior. | Bulletin | of | the United States |  
Geological and Geographical Survey | of | the Territories. | F. V.  
Hayden, | U. S. Geologist-in-charge. | 1876. | — | Volume  
II. | — | Washington: | Government Printing Office. | 1876.  
[8vo, pp. i-xii, 1-292, + 8 ll. unpagcd, pll. 1-49, (pll. 32-41 = folded  
pll. I-X,)+pll. I-VI, 2 folded maps, 2 wood-cuts in text.]

### CONTENTS.

No. 1.—[8vo, pp. 1-87, with 29 plates and 1 map.] Mar. 21, 1876.

- I. A Notice of the Ancient Ruins of Southwestern Colorado, examined during the summer of 1875. By W. H. Holmes. pp. 3-24, pll. 1-14.
- II. A Notice of the Ancient Ruins in Arizona and Utah lying about the Rio San Juan. By W. H. Jackson. pp. 25-45, pll. 15-22 and a map.
- III. The Human Remains found among the Ancient Ruins of Southwestern Colorado and New Mexico. By Dr. Emil Bessels. pp. 47-63, pll. 23-29.
- IV. Ancient Art in Northwestern Colorado. By E. A. Barber. pp. 65-66.
- V. Bead Ornaments, employed by the Ancient Tribes of Utah and Arizona. By E. A. Barber. pp. 67-69.
- VI. Language and Utensils of the modern Utes. By E. A. Barber. pp. 71-76.
- VII. Fossil Coleoptera from the Rocky Mountain Tertiaries. By Samuel H. Scudder. pp. 77-87.

No. 2.—[8vo, pp. 89-195, with 2 plates and 2 unpagcd leaves.] Apr. 1, 1876.

- I. Studies of the American Falconidæ. By Robert Ridgway. pp. 91-182, 2 ll. unpagcd, pll. 30, 31.
- II. Ornithology of Guadeloupe Island. By Robert Ridgway. pp. 183-195.

No. 3.—[8vo, pp. 196-277, with 10 plates and 1 map.] June 5, 1876.

- I. Notes Descriptive of Some Geological Sections of the Country about the Headwaters of the Missouri and Yellowstone Rivers. By F. V. Hayden. pp. 197-209, pll. 32-41, (= folded pll. I-X.)

- II. Notes on the Tertiary and Cretaceous Periods of Kansas. By B. F. Mudge. pp. 211-221.
- III. Notes in relation to the accompanying Contour-Map of the United States. By Henry Gannett, M. E. pp. 223-226, map.
- IV. The Flora of Southwestern Colorado. By T. S. Brandegee. pp. 227-248.
- V. Brief Synopsis of North American Earwigs, with an Appendix on the Fossil Species. By Samuel H. Scudder. p. 249-260.
- VI. List of the Orthoptera collected by Dr. A. S. Packard in Colorado and the neighboring Territories, during the Summer of 1875. By Samuel H. Scudder. pp. 261-267.
- VII. Notice of a small Collection of Butterflies made by Dr. A. S. Packard in Colorado and Utah, in 1875. By Samuel H. Scudder. pp. 269-270.
- VIII. Notes on the Grammar of the Nez Percés Language. By George Ainslie. pp. 271-277.

No. 4.—[8vo, pp. 278-392, i-xii, with 14 plates and 2 wood-cuts.] Aug. 4, 1876.

- I. Notes on the Geology of Northeastern New Mexico. By O. St. John. pp. 279-308, pll. 42-49.
- II. Geographical Variation among North American Mammals, especially in respect to Size. By J. A. Allen. pp. 309-344.
- III. Sexual, Individual, and Geographical Variation in *Leucosticte tephrocotis*. By J. A. Allen. pp. 345-350.
- IV. Descriptions and Illustrations of Fossils from Vancouver's and Suclia Islands, and other Northwestern Localities. By F. B. Meek. pp. 351-376, 6 ll. unpagcd, pll. I-VI.
- V. Note on the New Genus *Uintacrinus*. By F. B. Meek. pp. 375-378, 2 wood-cuts.

General Index. pp. 379-386.

Systematic Index. pp. 387-392.

Title-page, prefatory note, table of contents, list of illustrations, and of new species described, for whole Vol. II. pp. i-xii.

ADVERTISEMENT.—The Bulletins appear irregularly, at convenient intervals, the several numbers of one year forming a continuously-paged annual volume. Over-sheets of the various articles in each Bulletin, re-paged or not, retitled or not, are also issued separately, for authors' use, forming small editions of about 200 copies.

## V.—FINAL REPORT ON NEBRASKA.

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42d Congress, 1st Session. {House of Representatives. {Ex. Doc. No. 19. | Final Report | of the | United States Geological Survey | of | Nebraska | and Portions of | the Adjacent Territories, | made under the direction of | the Commissioner of the General Land-Office. | By | F.V. Hayden, | United States Geologist. | — | March 23, 1871.—Ordered to be printed. | Washington: | Government Printing Office. | 1871. [8vo, 264 pp., 11 pll., with 11 ll. explanatory, 1 map folded.]

### CONTENTS.

Part I. Geology. By F. V. Hayden. pp. 3-79.

Part II. Paleontology, [*or,*] Report on the Paleontology of Eastern Nebraska, with some remarks on the Carboniferous Rocks of that district. By F. B. Meek. pp. 81-245, pll. 1-11.

Part III. Entomology, by S. H. Scudder, [*or,*] Notes on the Orthoptera collected by Dr. F. V. Hayden in Nebraska. By Samuel H. Scudder. pp. 247-261.

Index. pp. 263-264.

## VI.—MONOGRAPHS.

### I.

Department of the Interior. | — | Report | of the | United States Geological Survey | of | the Territories. | F. V. Hayden, | United States Geologist-in-charge. | — | In five volumes.\* | — | Washington: | Government Printing Office. | 1873.

#### VOLUME I.—FOSSIL VERTEBRATES.

Part I. | — | Contributions | to the | Extinct Vertebrate Fauna | of | the Western Territories. | By | Joseph Leidy. | 1873. [4to, 358 pp., 37 pll., with 37 ll. explanatory.]

#### CONTENTS.

Letter to the Secretary. p. 1.

Table of Contents. pp. 7-11.

Letter to Dr. Hayden. p. 13.

Preface. p. 14.

Extinct Vertebrate Fauna of the Bridger Tertiary Formation of Wyoming Territory. pp. 15-197.

Description of Remains of Mammals from the Tertiary Formation of Sweet-water River, Wyoming. pp. 198-226.

Descriptions of Remains of Vertebrata from Tertiary Formations of different States and Territories west of the Mississippi River. pp. 227-265.

Description of Remains of Reptiles and Fishes from the Cretaceous Formations of the Interior of the United States. pp. 266-310.

Notice of some Remains of Fishes from the Carboniferous Formations of Kansas. pp. 311-314.

Synopsis of the Extinct Vertebrata described or noticed in the present work. pp. 315-354.

Index. pp. 355-358.

### II.

Department of the Interior. | — | Report | of the | United States Geological Survey | of | the Territories. | — | F. V. Hayden, | United States Geologist-in-charge. | — | Volume II. | — | Washington: | Government Printing Office. | 1875. [4to, pp. i-iv, 1 l., pp. 1-302, 1 l., with pll. lvii and 57 ll. explanatory.] [Also 10 wood-cuts.]

\* When the series was commenced, it was intended to finish it in five volumes. At present, the numbers are extended indefinitely.

United States Geological Survey of the Territories. | — | The Vertebrata | of the | Cretaceous Formations | of | the West. | — | By E. D. Cope. | — | Washington: | Government Printing Office. | 1875.

CONTENTS.

Table of Contents. p. 1.

List of Wood-cuts. p. 3.

Letter to Professor Hayden. p. 5.

Introduction on the Significance of Paleontological Science. pp. 7-14.

Part I. The Classification and Distribution of the Cretaceous Deposits of the West. pp. 15-41.

Part II. Descriptions of the Cretaceous Vertebrata of the West. pp. 42-244 A-F.

Part III. Synopsis of the known Cretaceous Vertebrata of North America. pp. 245-302.

Index. [1 p. not numbered.]

III.

Department of the Interior. | — | Report | of the | United States Geological Survey | of | the Territories. | F. V. Hayden, | United States Geologist-in-charge. | — | In five volumes. | — | Washington: | Government Printing Office. | 1873.

VOLUME 5.—ZOOLOGY AND BOTANY.

Part I. | — | Synopsis | of the | Acrididæ of North America. | By | Cyrus Thomas, Ph. D. | 1873. [4to, pp. x, 262, with 1 plate and 2 wood-cuts.]

CONTENTS.

Letter to the Geologist-in-charge. pp. 1-2.

List of Authorities. pp. 3-6.

Part I. The Acrididæ of the United States. pp. 7-190.

Part II. Acrididæ of North America not found in the United States. pp. 191-250.

Description of Plate. pp. 251-252.

Glossary. pp. 253-258.

Index. pp. 259-262.

Department of the Interior. | — | Report | of the | United States Geological Survey | of | the Territories. | F. V. Hayden, | United States Geologist-in-charge. | — | Volume [Nos. *mut. mut. mut.*] | — | Washington: | Government Printing Office. | [*An. mut. mut. mut.*]

## IV.

## VOLUME VI.

United States Geological Survey of the Territories. | = | Contributions | to | the Fossil Flora | of the | Western Territories. | — | Part I. | — | The Cretaceous Flora. | By Leo Lesquereux. | — | Washington: | Government Printing Office. | 1874. [4to, 4 ll., pp. 1-136, 30 pll. with 30 ll. explanatory.]

## CONTENTS.

- § 1. Discovery of the Fossil Plants of the Dakota Group. pp. 3-9.
  2. Surface Distribution of the Dakota Group. pp. 10-13.
  3. Stratigraphical Distribution of the Dakota Group. pp. 13-25.
  4. The Dakota Group considered as a Marine Formation. pp. 25-28.
  5. Distribution of the Leaves in the Composition of the Dakota Group. pp. 28-31.
  6. Generic Characters of the Flora of the Dakota Group. pp. 31-35.
  7. Disconnection of the Flora of the Dakota Group from Antecedent Types. pp. 35-38.
  8. The Flora of the Dakota Group in Relation to Climate. pp. 38-42.
  9. Description of Species. pp. 42-115.
  10. On the General Characters and the Relation of the Flora of the Dakota Group. pp. 116-129.
  11. Conclusion. pp. 129-133.
- Index. pp. 135-136.

## V.

## VOLUME IX.

United States Geological Survey of the Territories. | — | A Report | on the | Invertebrate Cretaceous and Tertiary Fossils | of the | Upper Missouri Country. | — | By F. B. Meek. | — | Washington: | Government Printing Office. | 1876. [pp. i-lxiv, 1-629, with 85 wood-cuts, and pll. 45, with 45 ll. explanatory.]

## CONTENTS.

- Letter to the Secretary. pp. iii-iv.
- Table of Contents and Lists of Errata and Wood-cuts. pp. vii-xv.
- Letter to the Geologist-in-charge. p. xvii.
- Introductory Remarks. pp. xix-lxiv.
- Cretaceous Formation. pp. xxi-xlvi.
- Fresh- and Brackish-Water Lignite Deposits of the Upper Missouri. pp. xlvii-lxi.
- Tertiary Rocks of the Wind River and White River Groups. pp. lxi-lxiv.



- Invertebrate Paleontology. pp. 1-609.  
Cretaceous Species. pp. 1-508.  
Species of the Fresh- and Brackish-Water Lignite Beds. pp. 509-592.  
Fossils of the Wind River Tertiary. pp. 593-597.  
Fossils of the White River Tertiary. pp. 598-605.  
Appendix. pp. 607-609.  
Index. pp. 611-629.

VI.

VOLUME X.

United States Geological Survey of the Territories. | — | A | Monograph | of the | Geometrid Moths or Phalænidæ | of the | United States. | — | By A. S. Packard, jr., M. D. | — | Washington: | Government Printing Office. | 1876. [pp. i-iv, 2 ll. pp. 1-607., pll. 13, with 13 ll. explanatory.]

CONTENTS.

- Letter to the Secretary. pp. iii-iv.  
Letter to the Geologist-in-charge. pp. 1-2.  
Introduction. pp. 3-6.  
§ 1. Synonymy of the Family. p. 7.  
2. History of the Family. pp. 7-15.  
3. Differential Characters of the Family. pp. 15-16.  
4. Comparative Anatomy of the Head. pp. 16-23.  
5. Comparative Anatomy of the Thorax. pp. 23-28.  
6. Anatomy of the Male Genital Armature. pp. 28-32.  
7. Comparison with other Families of Lepidoptera. pp. 32-35.  
8. Internal Anatomy of the Larva. pp. 35-36.  
9. Habits of the Species. p. 36.  
10. Development of the Thorax of the Imago. p. 37.  
11. Secondary Sexual Characters of the Imago. pp. 38-42.  
12. Origin of the Genera and Species. pp. 42-43.  
13. Mimicry of Natural Objects. pp. 43, 44.  
14. Terminology. p. 44.  
15. Description of the Genera and Species. p. 45.  
16. Geographical Distribution of the Phalænidæ of the United States. pp. 567-594.  
17. Bibliography. pp. 595-598.  
18. Index. pp. 599-607.

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[NOTE.—Vols. III., IV., VII., VIII., have not yet appeared. (See p. 35.)]

## VII.—UNCLASSIFIED PUBLICATIONS.

### I.

Lists | of | Elevations and Distances | in that portion of the United States | west of the Mississippi River. [First edition.] | — | Col- lated and arranged by | Prof. C. Thomas, | Asst. U. S. Geol. Surv., | under | Dr. F. V. Hayden. | — | Washington: | Govern- ment Printing Office. | 1872. [12mo, 31 pp.]

NOTE.—See note, *antè*, p. 17, *sub* Misc. Pub. No. 1.

#### CONTENTS.

- I. Tables, i-xiii. pp. 1-27.  
II. Remarks: pp. 29-31.

### II.

Department of the Interior. | United States Geological Survey of the Territories. | F. V. Hayden, U. S. Geologist-in-charge. | — | Synopsis | of | New Vertebrata | for the | Tertiary of Colorado, | obtained during the summer of 1873. | By | Professor E. D. Cope. | — | [Extracted from the seventh annual report of the United | States Geological Survey of the Territories, | F. V. Hay- den, U. S. Geologist-in-charge.] | — | Washington: | Government Printing Office. | October, 1873. [8vo, pp. 19.]

NOTE.—Only quasi-extracted from the report of which it ostensibly forms part. It was published in advance of the seventh annual report, as a separate pamphlet; and finally appeared in the report so much modified as to be in effect a different article.

#### CONTENTS.

(A Series of Descriptions of New Genera and Species, under heads of the sev- eral classes or orders to which belonging.)

### III.

#### [REPORT BY THE GEOLOGIST-IN-CHARGE.]

Profiles, Sections, | and other | Illustrations, | designed to accompany the Final Report of the | Chief Geologist of the Survey | and sketched under his directions | by Henry W. Elliott. | — | Under authority of the Secretary of the Interior. | — | New York: | Ju- lius Bien. | 1872. [4to, 2 p. ll., 65 pll., mostly folded.]

NOTE.—This volume was originally intended to illustrate one of the vols. (Vol. IV) of the quarto series of "Reports of the United States Geological Survey of the Territories". Only 100 copies were published, and the work is now out of print.

IV.

Catalogue | of | the Publications | of the | United States Geological  
Survey | of | the Territories. | F. V. Hayden, | Geologist-in-  
charge. | — | Washington: | Government Printing Office. | 1874-  
[8vo, 20 pp.]

CONTENTS.

- I. Chronological Enumeration of Publications. p. 5.
- II. Annual Reports of Progress. pp. 6-10.
- III. Miscellaneous Publications. p. 11.
- IV. Bulletins.
- V. Final Report on Nebraska. p. 13.
- VI. Monographs [*i. e.* 4to series of "Reports".] p. 14.
- VII. Minor Unclassified Publications. p. 15.
- VIII. Maps. p. 16.
- IX. Works in Process of Publication. pp. 17-18.
- X. Index of Contributors. pp. 19-20.

V.

Catalogue | of the | Photographs | of the | U. S. Geological and  
Geographical Survey | of the | Territories. | — | By W. H. Jack-  
son, Photographer. | — | Washington: | Government Printing  
Office. | 1875. [18mo, pp. 1-51.]

NOTE.—This is a *fifth* catalogue of photographs. The first *three* were informal pub-  
lications, of which no account has been taken. The *fourth* is Misc. Pub. No. 5 (see  
p. 18) *anteâ*. The *sixth* is Misc. Pub. No. 5, "second edition" (see p. 18) *anteâ*.

VI.

Catalogue | of | the Publications | of the | United States Geological  
Survey | of | the Territories. | F. V. Hayden, | Geologist-in-  
charge. | Second edition. | (Revised to December 31, 1876.) | — |  
Washington: | Government Printing Office. | 1877. [8vo, pp. 38.]

CONTENTS.

- I. Chronological Enumeration of Publications. p. 7.
- II. Annual Reports of Progress. p. 9.
- III. Miscellaneous Publications. p. 17.
- IV. Bulletins. p. 19.
- V. Final Report on Nebraska. p. 23.
- VI. Monographs. p. 24.
- VII. Unclassified Publications. p. 28.
- VIII. Maps. p. 31.
- IX. Works in Process of Publication. p. 33.
- X. Maps in Process of Publication. p. 34.
- XI. Works in Preparation. p. 35.
- XII. Index of Contributors to Publications. p. 37.

## VII.

Department of the Interior, | U. S. Geological and Geographical  
Survey of the Territories. | F. V. Hayden, U. S. Geologist-in-  
charge. | — | The | Grotto Geyser | of the | Yellowstone Na-  
tional Park. | With | a descriptive note and map, and an illustra-  
tion by the Albert-type Process. | [*n. d., n. p.* Washington:  
Government Printing Office. 1876. Oblong folio, 1 p. 1., 2 ll. of  
text, 1 Albert-type, 1 map.]

NOTE.—The edition consisted of 210 copies.

## CONTENTS.

(See foregoing collation.)

## VIII.—MAPS.

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PREPARED BY THE UNITED STATES GEOLOGICAL SURVEY OF THE  
TERRITORIES.

1871.

1. Yellowstone Lake.
2. Lower Geyser Basin of Firehole River.
3. Upper Geyser Basin of Firehole River.
4. Yellowstone National Park.
5. Parts of Idaho, Montana, and Wyoming Territories. Preliminary map for field-use.

1872.

6. Map of the Lower Geyser Basin on Firehole River, resurveyed by Bechler in 1872, and engraved on stone (scale, 8 miles to 1 inch).
7. Map of Upper Geyser Basin of Firehole River.
8. Map of Lake Henry and the Sources of the West Fork of Snake River.
9. Map of Shoshone Geyser Basin and Lake.
10. Map of the Sources of Snake River (reduced from the final map).
11. Montana and Wyoming Territories, embracing most of the country about the sources of the Madison, Gallatin, and Yellowstone Rivers, in contour-lines. (Final map on a scale of 5 miles to 1 inch.)
12. Map of the Sources of Snake River and its Tributaries. (Final map, scale 5 miles to 1 inch.)
13. Field-map of Colorado based on the United States land-survey for use during the season of 1873.
14. Geological Map of Montana and Wyoming Territories, &c. (same as No. 11, with geological colors).
15. Geological map of the Sources of Snake River, &c. (same as No. 12, with geological colors).

1873.

16. Preliminary Map of Central Colorado, showing the region surveyed in 1873.
17. Sketch showing the Primary and Secondary Triangulation of 1873.
18. Map showing the Railroad and Canal Lines used in the Determination of Elevations, by J. T. Gardner.

1874.

19. Preliminary Map of the San Juan Country.
20. Geological Map of the Elk Mountains, Colorado.
21. Geological Map of Colorado Springs and Vicinity.
22. Preliminary Map of the Eastern Base of the Rocky Mountains, in Colorado, from the Arkansas River to the Wyoming Line.
23. Map of the Moraines of the Upper Arkansas Valley in Colorado.
24. Preliminary Map of Central Colorado (in hachures) showing the areas surveyed in 1873 and 1874.

1875.

25. Preliminary Map of Southwestern Colorado and parts of adjacent Territories, showing localities of ancient ruins.

## IX.—WORKS IN PROCESS OF PUBLICATION.

### I.

Monographs of North American Rodentia. By Dr. Elliott Coues, U. S. A., and Prof. J. A. Allen. [4to, plates.]

NOTE.—Will constitute Vol. XI. of the quarto series of "Reports".

#### CONTENTS.

- Monograph I. Muridæ. By Dr. Elliott Coues, U. S. A.  
Monograph II. Leporidae. By Prof. J. A. Allen.  
Monograph III. Hystricidæ. By Prof. J. A. Allen.  
Monograph IV. Lagomyidæ. By Prof. J. A. Allen.  
Monograph V. Castoroididæ. By Prof. J. A. Allen.  
Monograph VI. Castoridæ. By Prof. J. A. Allen.  
Monograph VII. Zapodidæ. By Dr. Elliott Coues, U. S. A.  
Monograph VIII. Sacomysidæ. By Dr. Elliott Coues, U. S. A.  
Monograph IX. Haplodontidæ. By Dr. Elliott Coues, U. S. A.  
Monograph X. Geomyidæ. By Dr. Elliott Coues, U. S. A.  
Monograph XI. Sciuridæ. By Prof. J. A. Allen.

### II.

Miscellaneous Publications No. 7. Ethnography and Philology of the Hidatsa Indians. By Dr. W. Matthews, U. S. A. [8vo.]

#### CONTENTS.

- Part I. Ethnography.  
Part II. Philology.

### III.

Miscellaneous Publications No. 8. History of North American Mustelidæ. By Dr. Elliott Coues, U. S. A. [8vo.]

#### CONTENTS.

- Chapter I. General considerations.  
Chapters II-VI. Mustelinæ.  
Chapters VII-VIII. Mephitinæ.  
Chapter IX. Melinæ.  
Chapter X. Lutrinnæ.  
Chapter XI. Enydrinæ.

### IV.

Miscellaneous Publications No. 9. A Historical and Biographical Catalogue of Photographs of the Indians of North America, including seventy-five tribes. By W. H. Jackson. [8vo.]

X.—MAPS IN PROCESS OF PUBLICATION.

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I.

Drainage Map of Colorado. Scale 12 miles to 1 inch. Streams printed in blue, and roads, peaks, and all names in black. (This map is to be one of the series making up the Atlas.)

II.

Contour Map of Colorado in six sheets (ea.  $34\frac{1}{2} \times 21\frac{1}{2}$  inches). Scale 4 miles to 1 inch; contours 200 feet apart.

III.

Geological Map of Colorado in six sheets. Scale 4 miles to 1 inch. (Same as II, with geological colors.)



## XI.—WORKS IN PREPARATION.

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### I.—ANNUAL REPORTS.

Ninth Annual Report, work of 1875 in Colorado.

Tenth Annual Report, work of 1876 in Colorado.

### II.—BULLETINS.

Volume III.

NOTE.—Various articles are already in hand for the third vol. of the Bulletin for 1877.

### III.—MONOGRAPHS.

Volume III.—Vertebrate Palæontology of the Eocene Formations of the West. By E. D. Cope.

Volume IV.—Vertebrate Palæontology of the Miocene Formations of the West. By E. D. Cope.

Volume VII.—The Fossil Flora of the Lignitic Tertiary Formation of the Western Territories. By Leo Lesquereux.

Volume VIII.—Parts I., II.—Contributions to the Geology of Montana, Wyoming, and portions of adjacent Territories, with woodcuts, sections, five maps, and over seventy Albert-type illustrations. Part III.—Contributions to the Cretaceous and Tertiary Flora of the Western Territories, with twenty-six plates.

Volume XII.—Contributions to the Ethnography and Philology of the Indian Tribes of the Valley of the Missouri River and its Tributaries.

Volume XIII. [On the Fossil Insects of North America, (title undetermined.)] By S. H. Scudder.



## XII.—INDEX OF CONTRIBUTORS TO PUBLICATIONS.

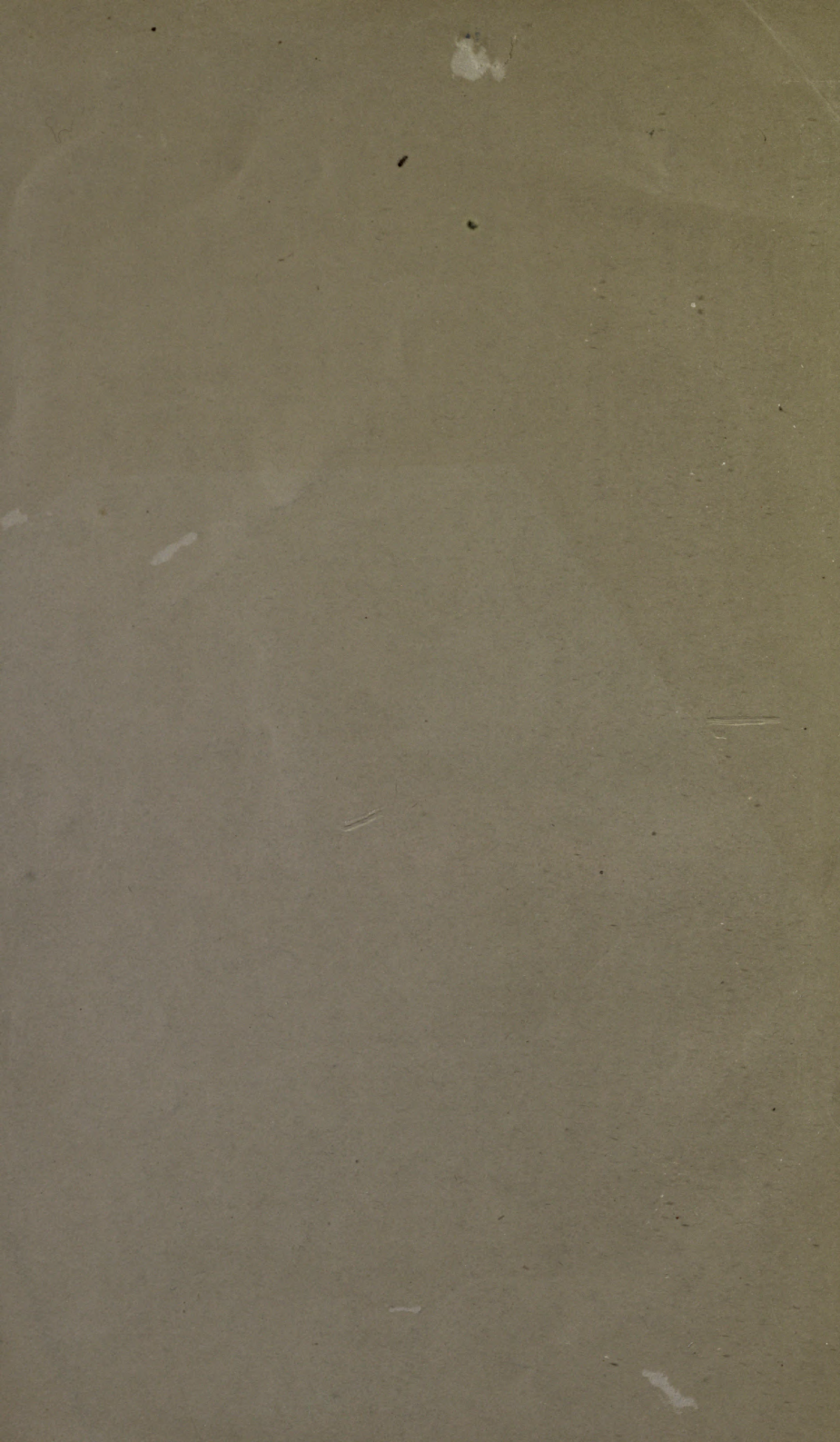
	Page.
Ainslie (George) .....	22
Allen (J. A.).....	22, 33
Aughey (Samuel).....	16
Bannister (Henry M.) .....	13
Barber (E. A.) .....	21
Beaman (J. W.).....	11, 12
Bessels (Emil) .....	21
Binney (William G.).....	15
Bradley (Frank H.).....	13
Brandege (T. S.) .....	22
Carpenter (W. L.) .....	14
Chittenden (George B.) .....	18
Conrad (T. A.).....	14
Cope (Edward D.).....	11, 12, 13, 14, 19, 25, 35
Coulter (John M.).....	13, 18
Coues (Elliott) .....	17, 19, 20, 21, 33
Edwards (W. H.) .....	12, 14
Elliott (Henry W.).....	28
Elliott (R. S.).....	11
Endlich (F. M.) .....	14, 16, 20
Gannett (Henry) .....	13, 15, 16, 17, 22
Gardner (James T.) .....	15, 19
Gill (Theodore) .....	20
Hagen (Hermann A.) .....	13, 14
Hayden (F. V.) .....	9, 10, 11, 13, 14, 15, 20, 21, 23, 28, 30
Hering (Rudolph).....	13
Hodge (James T.).....	10
Holmes (William H.).....	15, 21
Horn (George H.) .....	11, 12, 13
Ingersoll (Ernest) .....	16, 20
Jackson (William H.).....	16, 20, 21
Ladd (S. B.).....	15, 16
Langford (N. P.).....	13
Leidy (Joseph).....	11, 12, 13, 24
Lesquereux (Leo) .....	11, 12, 13, 14, 16, 18, 19, 20, 26, 35
Marvine (A. R.) .....	14, 15
Mathews (G. W.).....	33
Meek (F. B.) .....	10, 12, 13, 20, 21, 22, 23, 26
Merriam (Charles H.).....	13

	Page.
Mudge (B. F.).....	22
Newberry (J. S.).....	11
Ostensacken (C. R.).....	14
Packard (A. S., jr.).....	13, 14, 15, 20, 21
Parry (C. C.).....	11
Peale (A. C.).....	13, 14, 16
Peck (Charles H.).....	18
Porter (Thomas C.).....	11, 18
Rhoda (Franklin).....	16, 20
Ridgway (Robert).....	20, 21
Roberts (S. R.).....	11
Scudder (S. H.).....	20, 22, 23, 35
Silliman (B.).....	15
Smith (S. I.).....	15
Stevenson (James).....	11
St. John (O.).....	22
Stuart (Granville).....	13
Thomas (Cyrus).....	10, 11, 12, 13, 19, 25, 28
Uhler (Philip R.).....	11, 12, 20
Ulke (Henry).....	14
Verrill (A. E.).....	15
Willey (Henry W.).....	18
Williams (S. G.).....	20
Wilson (A. D.).....	16, 20

















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